

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S):

Kenneth M. Williams

APPLICATION NO.:

10/630,542

FILED:

July 29, 2003

TITLE:

Defining Instruction Extensions in a Standard Programming

Language

EXAMINER:

Isaac Teku Tecklu

GROUP ART UNIT:

2191

ATTY.DKT.NO.:

PA2221US

COMMISSIONER FOR PATENTS

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ALEXANDRIA, VA 22313-1450.

<u>List of Co-Pending Patents or Patent Applications That May Be Directed</u> <u>Towards Similar Subject Matter</u>

Examiner's	Application	Docket	First-Named	Title	
Initials	Number	Number	Inventor		Filing Date
	10/404,706	PA2561US	Scott D. Johnson	Extension Adapter	03-31-2003
				Instruction Set for Efficient Bit	
	10/686,882	PA2594US	Kenneth Williams	Stream and Byte Stream I/O	10-15-2003
				Systems and Methods for Software	
	10/750,714	PA2683US	Ricardo Gonzalez	Extensible Multi-Processing	12-31-2003
				Configuring a Multi-Processor	
	10/815,453	PA2718US	Ricardo Gonzalez	System	03-31-2004
				Systems and Methods for Selecting	,
				Input/Output Configuration in an	
	11/021,247	PA2838US	Ricardo Gonzalez	Integrated Circuit	12-21-2004
	٠.			Long Instruction Word Processing	
	11/129,146	PA3036US	Ricardo Gonzalez	with Instruction Extensions	05-12-2005
				Video Processing System with	
	11/099,280	PA3049US	Jeffrey M. Arnold	Reconfigurable Instructions	04-04-2005
			1	Programmable Logic	
	i ^r	PA3350US	,	Configuration for Instruction	
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	/lagge T	o oldud	•		Date
Examiner's	/Isaac T	eckiu/			03/04/200
Signature:		-			33/3/1/200

PTO/SB/08A (09-06) Approved for use through 03/31/2007. OMB 0851-0031

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ibstitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/630,542				
Filing Date	July 29, 2003				
First Named Inventor	Kenneth Williams	_			
Art Unit	2192	_			
Examiner Name	Isaac Tuku Tecklu				
Attorney Docket Number	PA2221US	7			

			U. S. PATEN	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	├	Number-Kind Code ^{2 (# known)}	05.00.0004		, iguioti ippedi
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	·	TW 480818	03-21-2002	Adaptive Silicon, Inc.		
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		TW 478252	03-01-2002	Adaptive Silicon, Inc.		
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Examiner Signature	/Isaac Tecklu/	Date Considered	03/04/2008

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 10/630,542 Filing Date July 29, 2003 INFORMATION DISCLOSURE First Named Inventor Kenneth Williams STATEMENT BY APPLICANT Art Unit 2191 (Use as many sheets as necessary) Isaac Tuku Tecklu **Examiner Name**

Sheet 2 of 4				Attorney Docket Number PA2221US		
			II Q DATEN	T DOCUMENTS		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee o Applicant of Cited Document		
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STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Kenneth Williams	
				Art Unit	2191	
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Sheet	3	of	4	Attorney Docket Number	PA2221US	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
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		SCOTT, STEVEN L. and GREGORY M. THORSON, "The Cray T3E Network: Adaptive Routing in a High Performance 3D Torus," August 15-16, 1996, HOT Interconnects IV, Stanford University.	
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Examiner	/Isaac Tecklu/	Date	03/04/2008
Signature	/ISaac_I ecklu/	Considered	03/04/2000

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Substitut	Substitute for form 1449/PTO			Complete if Known		
Substitute for form 1449/F10				Application Number	10/630,542	
INFO	DRMATIO	N DIS	CLOSURE	Filing Date	July 29, 2003	
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				Art Unit	2192	
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Examiner Signature /Isaac Tecklu/ Date Considered 03/04/2008

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First Named Inventor Kenneth Williams

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Sheet 2 of 4 Attorney Docket Number PA2221US

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*		BORKAR et al., "iWarp: An Integrated Solution to High-Speed Parallel Computing," 1988, IEEE CH2617-9/88/0000/03300.	
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Examiner		Date	03/04/2008
Signature	/Isaac Tecklu/	Considered	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

PADENA DIM 1449/PTO

(Use as many sheets as necessary)

Cor	mplete if Known
Application Number	10/630,542
Filing Date	July 29, 2003
First Named Inventor	Kenneth M. Williams
Art Unit	2192
Examiner Name	Isaac Tuku Tecklu
Attorney Docket Number	PA2221US

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.1	Number-Kind Code ^{2 (if known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevan Figures Appear	
		^{US-} 4,766,569	08-23-1988	Turner et al.		
		^{US-} 6,374,403	04-16-2002	Darte et al.		
		us- 7,086,047	08-01-2006	Edwards et al.	·	
		US- 2005/0027970	02-03-2005	Arnold et al.	·	
		^{US-} 2005/0268271	12-01-2005	Gutberlet et al.		
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Examiner Initials*		Foreign Patent Document	oreign Patent Document Publication Date		Pages, Columns, Lines, Where Relevant Passages	
muais	110.	Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Or Relevant Figures Appear	Т
		TW 478252	03-01-2002	Adaptive Silicon, Inc.		
		TW 480818	03-21-2002	Adaptive Silicon, Inc.		
		TW 509798	11-11-2002	Adaptive Silicon, Inc.		L
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Examiner Signature /Isaac Tecklu/ Date Considered ,03/04/2008
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Substitute for form 1449/PTO		Complete if Known			
7 Substitute for family 1449% 10	Application Number	10/630,542			
INFORMATION DISCLOSUR	E Filing Date	July 29, 2003			
STATEMENT BY APPLICAN	First Named Inventor	Kenneth M. Williams			
	Art Unit	2192			
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Sheet 2 of 2	Attorney Docket Number	PA2221US			

		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
		PEDRO DINIZ, et al. "Automatic Synthesis of Data Storage and Control Structures for FPGA-based Computing Engines," 2000 IEEE, pages 91-100.				
		MICHAEL BEDFORD TAYLOR et al., "The Raw Microprocessor: A Computational Fabric for Software Circuits and General-Purpose Programs," March-April 2002, IEEE Micro, pages 25-35				
		ELLIOT WAINGOLD et al., "Baring It All to Software: Raw Machines," Computer, September 1997, 1997 IEEE, pages 86-93.				
			·			

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Examiner Name	Isaac Tuku Tecklu			
Attorney Docket Number	PA22211IS			

			U. S. PATENT	DOCUMENTS	
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INF	ORMATION	I DIS	CLOSURE	Filing Date	July 29, 2003		
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Sheet	2	of	2	Attorney Docket Number	PA2221US		

	<del>,</del>	NON PATENT LITERATURE DOCUMENTS					
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		^{US-} 5,850,564	12-15-1998	Ting et al.	
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		^{US-} 5,684,980	11-04-1997	Casselman	
•		^{US-} 6,996,709	02-07-2006	Amold et al.	
		^{US-} 6,883,084	04-19-2005	Donohoe .	
		^{US-} 6,557,092	04-29-2003	Callen .	
		US- 6,831,690	12-14-2004	John et al.	
		^{US-} 6,343,337	01-29-2002	Dubey et al.	
		^{US-} 5,299,317	03-29-1994	Chen et al.	
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		^{US-} 5,274,782	12-28-1993	Chalasani et al.	
	,	^{US-} 5,247,689	09-21-1993	Ewert	
		^{US-} 5,055,997	10-08-1991	Sluijter et al.	
		^{US-} 5,471,628	11-28-1995	Phillips et al.	
	•	^{US-} 2003/0046513	03-06-2003	Furute et al.	
		^{US-} 2004/0186872	09-23-2004	Rupp	
		^{US-} 10/746,018	12-23-2003	Rupp et al.	
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		FOREI	GN PATENT DOCU	MENTS		
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Subsum			•	Application Number	10/630,542		
INF	ORMATION	N DIS	CLOSURE	Filing Date	July 29, 2003		
STA	STATEMENT BY APPLICANT			First Named Inventor	Kenneth M. Williams		
		·		Art Unit	2192		
	(Use as many sh	een es r	ecessary)	Examiner Name	Isaac Tuku Tecklu		
Sheet	2	of	2	Attorney Docket Number	PA2221US		

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•	·	KAI HWANG, "Advanced Computer Architecture: Parallelism, Scalability, Programmability," 1st Edition, Chapter 2, pp. 75-97, copyright 1993, McGraw-Hill, Inc., USA.					
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	toos as many am			Examiner Name	Isaac Tuku Tecklu	
Sheet	2	of	2 .	Attorney Docket Number	PA2221US	

Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), vonumber(s), publisher, city and/or country where published.					
	KAI HWANG, "Advanced Computer Architecture: Parallelism, Scalability, Programmal 1st Edition, Chapter 2, pp. 75-97, copyright 1993, McGraw-Hill, Inc., USA.				
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